BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Modified Estimate for Improvements to roads and Drains at Allalsandra village in ward no-04 of Yelahanka Satellite Town Sub Division

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
1	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No-27,I No-5.33)								
		Sqm							
							0.00	116.53	0.00
	Approved Rate Rs.=	116.53							
2	KSRRB300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications								
	Desilt	Cum							
	Allansandra								
	1st Main Rd		2	271.70	0.60	0.60	195.62		
	Temple Road		2	70.40	0.60	0.30	25.34		
	For Kerb Stone								
	1st Main Rd		2	139.00	0.20	0.20	11.12		
	Temple Road		2	70.40	0.20	0.20	5.63		
							237.72	225.40	53582.09
	Approved Rate Rs.=	225.40							
3	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, WQM curing, form								
	For Kerb	Cum							
	1st Main Rd		2	139.00	0.20	0.10	5.56		
	Temple Road		2	70.40	0.20	0.10	2.82		
							8.38	5676.73	47548.29 ?
	Approved Rate Rs.=	5676.73							47,570.99
4	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour								
	For Kerb	Nos							
	1st Main Rd								
	Temple Road		2	139.00			618.00		
			2	70.40			313.00		
							931.00	452.81	421566.11
	Approved Rate Rs.=	452.81							
5	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications.								
	For Kerb	Sqm							
	1st Main Rd								
	Temple Road		2	139.00					
			2	70.40		0.40	111.20		
						0.40	56.32		
	Approved Rate Rs.=	88.79					167.52	88.79	14874.10

Sl	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount
				m	m	m		In Rs	In Rs
6	Providing and Fixing pre cast covering Slab 100mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)								
		Sqm							
	Allansandra								
	1st Main Rd		2	271.70	0.90	--	489.06		
	Temple Road		2	24.00	0.90	--	43.20		
							532.26	2446.84	1302355.06
	Approved Rate Rs.=	2446.84							
7	KSRRB M300-14. Excavation for Road Way in Hard rock by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications.								
		Cum							
	Allansandra								
	1st Main Rd		2	636.00	1.92	0.25	610.56		
	Temple Road		2	70.00	1.90	0.25	66.50		
							677.06	66.95	45329.17
	Approved Rate Rs.=	66.95							
8	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method by rotavator at OMC,spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per								
		Cum							
	Allansandra								
	1st Main Rd		2	636.00	1.92	0.15	366.34		
	Temple Road		2	70.00	1.90	0.15	39.90		
							406.24	2088.68	848497.01
	Approved Rate Rs.=	2088.68							
9	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications.								
		Cum							
	Allansandra								
	1st Main Rd		2	636.00	1.92	0.230	561.72		
	Temple Road		2	70.00	1.90	0.230	61.18		
							622.90	2095.34	1305177.23
	Approved Rate Rs.=	2095.34							
10	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications.								
		Sqm							
	Allansandra								
	1st Main Rd		2	636.00	1.92		2442.24		
	Temple Road		2	70.00	1.90		266.00		
							2708.24	31.07	84145.02
	Approved Rate Rs.=	31.07							

Sl	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount
				m	m	m		in Rs	in Rs
11	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications.(P.No-158,I No-21.2)								
		Sqm							
	Allansandra						1911.94		
							1911.94	5.55	10611.27
	Approved Rate Rs.=	5.55							
12	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications								
		Sqm							
	Allansandra								
	1st Main Rd		1	636.00	6.62		4207.14		
	Temple Road		1	70.40	5.84		411.14		
							4618.28	13.32	61515.44
	Approved Rate Rs.=	13.32							
13	KSRRB 500-11. Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by smooth wheeled, vibratory & tandem rollers to achieve the desired density, but excluding cost of primer / tack coat & including lead, lift and cost of all materials, labour, HOM complete as per specifications. 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 3.4% VG-30 Bitumen								
		Cum							
	Allansandra								
	1st Main Rd		2	636.00	1.92	0.050	122.11		
	Temple Road		2	70.00	1.90	0.050	13.30		
	Profile Correction						23.50		
							158.91	6708.86	1066118.36
	Approved Rate Rs.=	6708.86							
14	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)								
		Cum							
	Allansandra								
	1st Main Rd		1	636.00	6.62	0.040	168.29		
	Temple Road		1	70.40	5.84	0.040	16.45		
							184.73	7891.93	1457884.44
	Approved Rate Rs.=	7891.93							
15	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications.								
		Sqm							

Sl	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount
				m	m	m		In Rs	in Rs
	Allansandra								
	1st Main Rd		2.5	636.00	0.10		159.00		
	Temple Road		2.5	70.40	0.10		17.60		
							176.60	476.11	84081.03
	Approved Rate Rs.=	476.11							
16	KSRRB M800-35. Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 – DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation								
		Sqm							
	Allansandra								
			2	90.00			180.00		
							180.00	374.01	67321.80
	Approved Rate Rs.=	374.01							
									68,70,625.94
								Sub Total 1 Rs.	6870606.39
								Miscellaneous & Rounding off	1133.61 1098.05
								Total Rs.	6871740.00
									6871724.00

Ramasanjeevaiah — Assistant Engineer, Ward 03, BBMP

Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP

Executive Engineer, Yelahanka Division, BBMP

Technical Sanction
Accorded For Rs 6871724.00
Head of A/C P.3889
CER NO : 72 Dt 11.02.2021

TA

Administrative Sanction for Rs. 75.00 Lakhs.
Rupees Seventy Five lakhs
only
is accorded under head P-3889
Basic infrastructural developmental
works at S/S.T. areas
Registered as CE No. 19
to conditions contained in enclo
No.BBMP/EE(YNK)/AS/19/2019-20 18/8/2020

Executive Engineer